

**ABSTRACT OF THE DISCLOSURE**

Please replace the Abstract of the Disclosure with the following paragraph:

A system accessing and transmitting data frames includes: at least one subscriber network interface, and/or at least one inter-network interface, and a data converting device coupled with the subscriber network interface and the inter-network interface. The data converting device includes: a virtual private device, an interface device, and a processing device. The virtual private device is configured for exchanging data frames between the subscriber network interface and the inter-network interface via interface device. The virtual private device includes an inter-device interface, coupled with the processing device; a virtual private processing unit, coupled with the inter-device interface and adapted for detecting control messages and converging or diverging data frames; a rule database, coupled with the virtual private processing unit and adapted for storing rules, according to which data frames are processed; and a control interface unit, coupled with and adapted for controlling the rule database and the virtual private processing unit.